

[GAS DYNAMIC PRESSURE BEARING, MOTOR HAVING THE GAS DYNAMIC PRESSURE BEARING, AND DISK DRIVE HAVING THE MOTOR]

Abstract

A gas dynamic pressure bearing comprises a shaft, a sleeve whose inner peripheral surface is opposed to an outer peripheral surface of the shaft through a micro-gap, and a substantially cylindrical hub which applies a surface pressure to an outer side of the sleeve and which is fitted to the sleeve, and at least one of the outer peripheral surface of the shaft and the inner peripheral surface of the sleeve is formed with a dynamic pressure generating groove, and if linear expansion coefficients of the shaft, the sleeve and the hub are defined as α_0 , α_1 and α_2 , respectively, a relation of $\alpha_1 < \alpha_0 < \alpha_2$ is satisfied.